

[illegible]

```
CCCCCCCC HH HH KK KK DDDDDDDD MM MM 000000
CCCCCCCC HH HH KK KK DDDDDDDD MM MM 000000
CC HH HH KK KK DD DD MMMM MMMM 00 00
CC HH HH KK KK DD DD MMMM MMMM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CC HHHHHHHH KKKKKK DD DD MM MM 00 00
CC HHHHHHHH KKKKKK DD DD MM MM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CC HH HH KK KK DD DD MM MM 00 00
CCCCCCCC HH HH KK KK DDDDDDDD MM MM 000000
CCCCCCCC HH HH KK KK DDDDDDDD MM MM 000000
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....  
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....

```
LL IIIII SS SSSSSSS
LL IIIII SS SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LL IIIII SSSSSSS
LLLLLLLLL IIIII SSSSSSS
LLLLLLLLL IIIII SSSSSSS
```



```
1 0001 0 MODULE CHKDMO (
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000',
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine dismounts the volume in use if it should be.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 STARLET operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 29-Apr-1977 17:19
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-026 HH0049 Hai Huang 16-Aug-1984
52 0052 1 Call IOC$DALLOC_DMT to handle deallocation on dismount.
53 0053 1
54 0054 1 V03-025 HH0047 Hai Huang 13-Aug-1984
55 0055 1 Correct IOC$DALLOC_DEV linkage (UCB address in R5).
56 0056 1
57 0057 1 V03-024 ACG0441 Andrew C. Goldstein, 9-Aug-1984 16:31
```

58	0058	1	Rework dismount interlocking to eliminate races and
59	0059	1	uninterlocked processing.
60	0060	1	
61	0061	1	V03-023 ACG0438 Andrew C. Goldstein, 2-Aug-1984 11:39
62	0062	1	Release cache locks when deallocating volume caches;
63	0063	1	use central dequeue routine.
64	0064	1	
65	0065	1	V03-022 LMP0275 L. Mark Pilant, 23-Jul-1984 14:08
66	0066	1	Don't try to delete an uninitialized ACL.
67	0067	1	
68	0068	1	V03-021 CDS0004 Christian D. Saether 20-Jun-1984
69	0069	1	Temporarily raise the process diocnt around the
70	0070	1	\$QIO so that it will never be blocked. Also raise
71	0071	1	ASTCNT so it will not fail for that reason.
72	0072	1	
73	0073	1	V03-020 CDS0003 Christian D. Saether 8-May-1984
74	0074	1	Have UPDATE_DIRSEQ routine queue for exclusive
75	0075	1	and cancel conversion of the volume lock to invalidate
76	0076	1	the ucb dirseq counter. Do not call the routine
77	0077	1	from the check_dismount routine anymore.
78	0078	1	
79	0079	1	V03-019 CDS0002 Christian D. Saether 22-Apr-1984
80	0080	1	Use routine LOCK_COUNT.
81	0081	1	
82	0082	1	V03-018 ACG0415 Andrew C. Goldstein, 9-Apr-1984 10:56
83	0083	1	Interface change to ACL_DELETEACL
84	0084	1	
85	0085	1	V03-017 HH0008 Hai Huang 9-Apr-1984
86	0086	1	Change R2 thru R5 to NOPRESERVE in the linkage of the
87	0087	1	EXES\$DEAPGDSIZ routine.
88	0088	1	
89	0089	1	V03-016 LMP0221 L. Mark Pilant, 27-Mar-1984 13:39
90	0090	1	Change UCBSL_OWNUIC to ORBSL_OWNER and UCBSW_VPROT to
91	0091	1	ORBSW_PROT.
92	0092	1	
93	0093	1	V03-015 ACG0408 Andrew C. Goldstein, 23-Mar-1984 14:42
94	0094	1	Add AST parameter so that impure storage is fully based
95	0095	1	
96	0096	1	V03-014 CDS0011 Christian D. Saether 3-Mar-1984
97	0097	1	Remove UNLOCK_XQP call. It is done prior to this
98	0098	1	point now. Also KILL_CACHE happens in CLEANUP.
99	0099	1	
100	0100	1	V03-013 CDS0010 Christian D. Saether 10-Feb-1984
101	0101	1	Changes to deallocate AQB and buffer when last
102	0102	1	dismount occurs on it.
103	0103	1	Replace FLUSH_FID call with KILL_CACHE call.
104	0104	1	
105	0105	1	V03-012 CDS0009 Christian D. Saether 29-Dec-1983
106	0106	1	Use L_NORM linkage and BIND_COMMON macro.
107	0107	1	
108	0108	1	V03-011 CDS0008 Christian D. Saether 16-Oct-1983
109	0109	1	Dequeue blocking lock.
110	0110	1	
111	0111	1	V03-010 CDS0007 Christian D. Saether 21-Sep-1983
112	0112	1	Release locks in final stages of dismount so that
113	0113	1	getlki check on volume lock is not confused by counting
114	0114	1	an allocation lock for this request.



```
115 0115 1
116 0116 1
117 0117 1
118 0118 1
119 0119 1
120 0120 1
121 0121 1
122 0122 1
123 0123 1
124 0124 1
125 0125 1
126 0126 1
127 0127 1
128 0128 1
129 0129 1
130 0130 1
131 0131 1
132 0132 1
133 0133 1
134 0134 1
135 0135 1
136 0136 1
137 0137 1
138 0138 1
139 0139 1
140 0140 1
141 0141 1
142 0142 1
143 0143 1
144 0144 1
145 0145 1
146 0146 1
147 0147 1
148 0148 1
149 0149 1
150 0150 1
151 0151 1
152 0152 1
153 0153 1
154 0154 1
155 0155 1
156 0156 1
157 0157 1
158 1148 1
159 1149 1
160 1150 1
161 1151 1
162 1152 1
163 1153 1
164 1154 1
165 1155 1
166 1156 1
167 1157 1
168 1158 1
169 1159 1
170 1160 1

V03-009 PRD0039 Paul R. DeStefano 13-Sep-1983
Modified to no longer clear volume valid when dismounting
the volume.

V03-008 CDS0006 Christian D. Saether 18-Aug-1983
Release volume lock.
If this is the last volume lock to be released, then
clear the device lock value block.

V03-007 CDS0005 Christian D. Saether 2-Aug-1983
Remove reference to obsolete RVX structure.

V03-006 CDS0004 Christian D. Saether 1-Mar-1983
Also need BYPASS privilege.

V03-005 LMP0071 L. Mark Pilant, 20-Jan-1983 13:09
Deallocate any ACL segments associated with directory FCB's
left in the cache. This includes correctly calling
ACL_DELETEACL with the correct arguments.

V03-004 CDS0003 Christian D. Saether 13-Jan-1983
Save and restore both PCB$Q_PRIV and PHD$Q_PRIVMSK.

V03-003 CDS0002 Christian D. Saether 28-Dec-1982
Need PHY privilege for unload and available functions.

V03-002 CDS0001 C Saether 31-Jul-1982
Change Q10W to Q10 with completion AST.

V03-001 LMP0037 L. Mark Pilant, 28-Jun-1982 15:10
Remove the addressing mode module switch.

V02-007 ACG0226 Andrew C. Goldstein, 24-Nov-1981 22:16
Issue IO$_AVAILABLE on DISMOUNT/NOUNLOAD

V02-006 ACG0167 Andrew C. Goldstein, 16-Apr-1980 19:25
Previous revision history moved to F11B.REV

**

LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:FCPDEF.B32';

Part of this routine runs at IPL$_SYNCH, so it must be locked into the
working set.

LOCK_CODE;

FORWARD ROUTINE
CHECK_DISMOUNT : L_NORM NOVALUE, ! check volume for dismount
UPDATE_DIRSEQ : L_NORM; ! bump volume directory sequence count
```

```
1161 1 GLOBAL ROUTINE CHECK_DISMOUNT : L_NORM NOVALUE =
1162 1
1163 1 ++
1164 1
1165 1 FUNCTIONAL DESCRIPTION:
1166 1
1167 1     This routine checks if the volume in use is marked for dismount and
1168 1     idle. If so, it completes the dismount.
1169 1
1170 1 CALLING SEQUENCE:
1171 1     CHECK_DISMOUNT ()
1172 1
1173 1 INPUT PARAMETERS:
1174 1     NONE
1175 1
1176 1 IMPLICIT INPUTS:
1177 1     CURRENT_UCB: UCB of unit in use
1178 1     CURRENT_VCB: VCB of volume in use
1179 1
1180 1 OUTPUT PARAMETERS:
1181 1     NONE
1182 1
1183 1 IMPLICIT OUTPUTS:
1184 1     NONE
1185 1
1186 1 ROUTINE VALUE:
1187 1     NONE
1188 1
1189 1 SIDE EFFECTS:
1190 1     Volume dismounted if appropriate
1191 1
1192 1 --
1193 1
1194 2 BEGIN
1195 2
1196 2 LINKAGE
1197 2     DALLOC_DEV      = JSB (REGISTER = 4, REGISTER = 5)
1198 2                     : NOPRESERVE (3)
1199 2                     : PRESERVE (2, 4, 5)
1200 2                     : NOTUSED (6, 7, 8, 9, 10, 11);
1201 2
1202 2 LOCAL
1203 2     J,               ! loop index
1204 2     RVT_LENGTH,     ! number of entries in RVT
1205 2     RVT              : REF BBLOCK; ! address of RVT (or UCB if not a set)
1206 2
1207 2 EXTERNAL
1208 2     CTL$GL_PCB       : ADDRESSING_MODE(GENERAL), ! PCB address
1209 2     CTL$GL_PHD       : ADDRESSING_MODE(GENERAL), ! PHD address
1210 2     IOC$GL_AQBLIST   : REF BBLOCK ADDRESSING_MODE (ABSOLUTE); ! AQB listhead
1211 2
1212 2 BIND_COMMON;
1213 2
1214 2 LINKAGE
1215 2     DEAP = JSB (REGISTER=0, REGISTER=1) : NOPRESERVE (2,3,4,5);
1216 2
1217 2 EXTERNAL ROUTINE
```



```
229 1218 2 CONV_ACCLOCK : L_NORM, : convert/dequeue access lock.
230 1219 2 LOCK_COUNT : L_NORM, : Determine count of locks granted.
231 1220 2 WAIT_FOR_AST : L_NORM NOVALUE ADDRESSING_MODE (GENERAL),
232 1221 2 : exit thread until completion ast
233 1222 2 CONTINUE_THREAD : L_NORM NOVALUE ADDRESSING_MODE (GENERAL),
234 1223 2 : completion ast to resume thread
235 1224 2 LOCK_IODB : L_NORM, : lock I/O data base mutex
236 1225 2 UNLOCK_IODB : L_NORM, : unlock I/O data base mutex
237 1226 2 DEQ_LOCK : L_NORM, : dequeue a lock
238 1227 2 DEALLOCATE : L_NORM, : deallocate dynamic memory
239 1228 2 SWITCH_CHANNEL : L_NORM, : switch channels to specified UCB
240 1229 2 SEND_ERRLOG : L_NORM, : send message to error logger
241 1230 2 EXES$DEAPGDSIZ : DEAP ADDRESSING_MODE (GENERAL),
242 1231 2 : Deallocate paged pool.
243 1232 2 IOC$DALLOC_DMT : DALLOC_DEV ADDRESSING_MODE (GENERAL),
244 1233 2 : deallocate device
245 1234 2 ACL_DELETEACL : : Delete & deallocate ACL segments
246 1235 2
247 1236 2
248 1237 2 ! Get the RVT address and iterate on the whole volume set, since deaccessing
249 1238 2 ! a multi-volume file could make several volumes eligible for dismount. If
250 1239 2 ! this is not a volume set we special case and exit.
251 1240 2 :
252 1241 2
253 1242 2 J = 1;
254 1243 2 RVT = .CURRENT VCB[VCB$L_RVT];
255 1244 2 IF .RVT NEQ .CURRENT UCB
256 1245 2 THEN RVT_LENGTH = .RVT[RVT$B_NVOLS];
257 1246 2
258 1247 2 DO
259 1248 2 BEGIN
260 1249 2
261 1250 2 ! Declare most locals here for substantial improvement in storage allocation.
262 1251 2 :
263 1252 2 LOCAL
264 1253 2 LOCKCOUNT : INITIAL (0), : count of volume locks
265 1254 2 STS, : general status value
266 1255 2 LKSTS : VECTOR [6], : lock status block
267 1256 2 AQB : REF BBLOCK, : address of XQP AQB
268 1257 2 CACHE : REF BBLOCK, : address of volume cache
269 1258 2 UCB : REF BBLOCK, : local address of UCB
270 1259 2 ORB : REF BBLOCK, : local address of ORB
271 1260 2 VCB : REF BBLOCK, : local address of VCB
272 1261 2 FCB : REF BBLOCK, : local address of FCB
273 1262 2 WCB : REF BBLOCK, : local address of WCB
274 1263 2
275 1264 2
276 1265 2 UCB = .RVT; : assume not volume set
277 1266 2
278 1267 2 IF .UCB NEQ .CURRENT UCB : get UCB if volume set
279 1268 2 THEN UCB = .VECTOR [RVT[RVT$L_UCBLST], .J-1];
280 1269 2
281 1270 2 ! First check the mark for dismount bit.
282 1271 2 :
283 1272 2
284 1273 2 IF .UCB NEQ 0
285 1274 2 THEN IF .BBLOCK [UCB[UCB$L_DEVCHAR], DEV$V_DMT]
```

```
286 1275 3 THEN
287 1276 4 BEGIN
288 1277 4
289 1278 4 ! Do volume switch if necessary.
290 1279 4 !
291 1280 4
292 1281 4 IF .UCB NEQ .CURRENT_UCB
293 1282 4 THEN SWITCH_CHANNEL (.UCB);
294 1283 4
295 1284 4 ! The volume is marked for dismount. The remainder of the tests and the
296 1285 4 ! dismount bit twiddling must be done interlocked.
297 1286 4 !
298 1287 4
299 1288 4 LOCK_IODB ();
300 1289 4 SET_IPL (IPL$_SYNCH);
301 1290 4
302 1291 4 ORB = .UCB[UCB$_ORB];
303 1292 4 VCB = .UCB[UCB$_VCB];
304 1293 4 IF .VCB[VCB$_TRANS] NEQ 1
305 1294 4 THEN
306 1295 4 UNLOCK_IODB ()
307 1296 4 ELSE
308 1297 5 BEGIN
309 1298 5
310 1299 5 ! The volume is marked for dismount and idle. Set the dismount in progress
311 1300 5 ! bit to stop all further activity.
312 1301 5 !
313 1302 5
314 1303 5 UCB[UCB$_DISMOUNT] = 1;
315 1304 5 UNLOCK_IODB ();
316 1305 5
317 1306 5 ! Make an error log entry to record the dismount.
318 1307 5 !
319 1308 5
320 1309 5 SEND_ERRLOG (0, .UCB);
321 1310 5
322 1311 5 ! Release the device as specified in the applicable dismount request
323 1312 5 ! by issuing either an IOS_UNLOAD or an IOS_AVAILABLE function.
324 1313 5 !
325 1314 5
326 1315 6 BEGIN
327 1316 6 LOCAL
328 1317 6 QIOSTAT,
329 1318 6 PTR : REF BBLOCK,
330 1319 6 SAVE_PRIV : VECTOR [4];
331 1320 6
332 1321 6 ! Save and restore PHY_IO privilege around the QIO.
333 1322 6 !
334 1323 6
335 1324 6 PTR = .CTL$GL_PCB;
336 1325 6 PTR [PCB$_DIOCNT] = .PTR [PCB$_DIOCNT] + 1;
337 1326 6 PTR [PCB$_ASTCNT] = .PTR [PCB$_ASTCNT] + 1;
338 1327 6 SAVE_PRIV [0] = .(PTR [PCB$_PRIV]);
339 1328 6 SAVE_PRIV [1] = .(PTR [PCB$_PRIV]+4);
340 1329 6
341 1330 6 BBLOCK [PTR [PCB$_PRIV], PRV$_PHY_IO] = 1;
342 1331 6 BBLOCK [PTR [PCB$_PRIV], PRV$_BYPASS] = 1;
```



```
343 1332 6
344 1333 6
345 1334 6
346 1335 6
347 1336 6
348 1337 6
349 1338 6
350 1339 6
351 1340 6
352 1341 6
353 1342 6
354 1343 6
355 1344 6
356 1345 6
357 1346 6
358 1347 6
359 1348 6
360 1349 6
361 1350 6
362 1351 6
363 1352 6
364 1353 6
365 1354 6
366 1355 6
367 1356 6
368 1357 6
369 1358 6
370 1359 6
371 1360 6
372 1361 6
373 1362 5
374 1363 5
375 1364 5
376 1365 5
377 1366 5
378 1367 5
379 1368 5
380 1369 5
381 1370 5
382 1371 5
383 1372 5
384 1373 6
385 1374 6
386 1375 6
387 1376 6
388 1377 6
389 1378 6
390 1379 6
391 1380 6
392 1381 6
393 1382 6
394 1383 6
395 1384 6
396 1385 6
397 1386 6
398 1387 6
399 1388 6

PTR = .CTL$GL_PHD;
SAVE_PRIV [2] = .(PTR [PHD$Q_PRIVMSK]);
SAVE_PRIV [3] = .(PTR [PHD$Q_PRIVMSK]+4);
BBLOCK [PTR [PHD$Q_PRIVMSK], PRV$V_PHY_IO] = 1;
BBLOCK [PTR [PHD$Q_PRIVMSK], PRV$V_BYPASS] = 1;

! Issue an unload function if unload was requested.

QIOSTAT = $QIO (
    CHAN = .IO CHANNEL,
    ASTADR = CONTINUE_THREAD,
    ASTPRM = .BASE,
    EFN = EFN,
    FUNC = (IF TESTBITSC (UCB[UCB$V_UNLOAD])
            THEN IO$UNLOAD
            ELSE IO$AVAILABLE)
);

(PTR [PHD$Q_PRIVMSK]) = .SAVE_PRIV [2];
(PTR [PHD$Q_PRIVMSK]+4) = .SAVE_PRIV [3];
PTR = .CTL$GL_PCB;
PTR [PCB$W_DIOCNT] = .PTR [PCB$W_DIOCNT] - 1;
PTR [PCB$W_ASTCNT] = .PTR [PCB$W_ASTCNT] - 1;
(PTR [PCB$Q_PRIV]) = .SAVE_PRIV [0];
(PTR [PCB$Q_PRIV]+4) = .SAVE_PRIV [1];

IF .QIOSTAT
THEN WAIT_FOR_AST();
END; ! of block defining PTR, SAVE_PRIV, QIOSTAT

! If this is a shared mount, raise the device lock to PW to get the
! value block, and prepare for writing it back. If the device is not
! shared, the lock is already at EX. If the device is not cluster
! accessible, there is no lock.

IF (LKSTS [1] = .UCB [UCB$L_LOCKID]) NEQ 0
AND .UCB [UCB$L_PID] EQ 0
THEN
    BEGIN
        STS = $ENQ (LKMODE = LCK$K_PWMODE,
                    LKSB = LKSTS,
                    EFN = EFN,
                    ASTADR = CONTINUE_THREAD,
                    ASTPRM = .BASE,
                    FLAGS = LCK$M_CONVERT + LCK$M_SYNCSTS
                          + LCK$M_NOQUOTA);

        IF .STS<0,16> EQL SS$_NORMAL
        THEN WAIT_FOR_AST ();
        IF NOT .STS
        OR NOT .LKSTS
        THEN BUG_CHECK (XQPERR, FATAL, 'Unexpected lock manager error');

! Determine whether this is the last (only) lock for this volume.
```

```
400 1389 6 !
401 1390 6
402 1391 6 LOCKCOUNT = LOCK_COUNT (.VCB [VCBSL_VOLLKID]);
403 1392 6 END
404 1393 5 ELSE
405 1394 5 LOCKCOUNT = 1; ! always 1 if allocated.
406 1395 5
407 1396 5 ! Now relock the I/O database and finish the dismount.
408 1397 5 ! Mark the volume dismounted and disconnect the VCB from the UCB.
409 1398 5 ! The high bit of the dirseq is masked off. This tells RMS the lock
410 1399 5 ! is disarmed.
411 1400 5
412 1401 5
413 1402 5 LOCK_IODB ();
414 1403 5 (UCB[UCBSW_DIRSEQ])<15,1> = 0;
415 1404 5 BBLOCK [UCB[UCBSL_DEVCHAR], DEV$V_MNT] = 0;
416 1405 5 BBLOCK [UCB[UCBSL_DEVCHAR], DEV$V_DMT] = 0;
417 1406 5 BBLOCK [UCB[UCBSL_DEVCHAR], DEV$V_SWL] = 0;
418 1407 5 UCB[UCBSW_REFC] = UCB[UCBSW_REFC] - 1;
419 1408 5 UCB[UCBSV_DISMOUNT] = 0;
420 1409 5 UCB[UCBSL_VCB] = 0;
421 1410 5 ORB[ORB$S_SYS_PROT] = 0;
422 1411 5 ORB[ORB$S_OWN_PROT] = 0;
423 1412 5 ORB[ORB$S_GRP_PROT] = 0;
424 1413 5 ORB[ORB$S_WOR_PROT] = 0;
425 1414 5 ORB[ORB$S_OWNER] = 0;
426 1415 5
427 1416 5 ! Decrement the mount count on the AQB. If it goes to zero, remove
428 1417 5 ! this AQB from the list and remember to deallocate it after we're done
429 1418 5 ! flushing buffers a little further on.
430 1419 5
431 1420 5
432 1421 5 AQB = .VCB [VCBSL_AQB];
433 1422 5 IF (AQB [AQB$B_MNTCNT] = .AQB [AQB$B_MNTCNT] - 1) NEQ 0
434 1423 5 THEN
435 1424 5 AQB = 0
436 1425 5 ELSE
437 1426 6 BEGIN
438 1427 6 LOCAL P : REF BBLOCK;
439 1428 6
440 1429 6 P = .IOC$GL_AQB_LIST;
441 1430 6 IF .P EQL .AQB
442 1431 6 THEN
443 1432 6 IOC$GL_AQB_LIST = .AQB [AQB$S_LINK]
444 1433 6 ELSE
445 1434 7 BEGIN
446 1435 7 UNTIL .P [AQB$S_LINK] EQL .AQB
447 1436 7 DO P = .P [AQB$S_LINK];
448 1437 7 P [AQB$S_LINK] = .AQB [AQB$S_LINK];
449 1438 6 END;
450 1439 5 END;
451 1440 5
452 1441 5 ! Deallocate the remaining file control blocks and caches.
453 1442 5 !
454 1443 5
455 1444 5 UNTIL REMQUE (.VCB[VCBSL_FCBFL], FCB)
456 1445 5 DO
```



```

457      1446 6      BEGIN
458      1447 6      FCB [FCBSW REFCNT] = 0;          ! force deq on conv_acclock
459      1448 6      CONV ACCLOCK (0, FCB);          ! deq access lock, if any
460      1449 6      IF .BBLOCK[FCB[FCBSR ORB], ORBSV ACL_QUEUE]
461      1450 6      THEN ACL DELETEACL (FCB[FCBSL ACFL], 0); ! Delete the ACL
462      1451 6      UNTIL REMQUE (.FCB[FCBSL_WFL], WCB) ! deallocate all window
463      1452 6      DO DEALLOCATE (.WCB);          ! segments
464      1453 6      DEALLOCATE (.FCB);          ! release all FCB's
465      1454 5      END;
466      1455 5
467      1456 5      CACHE = .VCB[VCBSL_CACHE];
468      1457 5      IF .BBLOCK [.CACHE[VCSL_FIDCACHE], VCSL_FIDCLKID] NEQ 0
469      1458 5      THEN DEQ LOCK (.BBLOCK [.CACHE[VCSL_FIDCACHE], VCSL_FIDCLKID]);
470      1459 5      IF .BBLOCK [.CACHE[VCSL_EXTCACHE], VCSL_EXTCLKID] NEQ 0
471      1460 5      THEN DEQ LOCK (.BBLOCK [.CACHE[VCSL_EXTCACHE], VCSL_EXTCLKID]);
472      1461 5      DEALLOCATE (.VCB[VCBSL_CACHE]); ! release the cache block
473      1462 5
474      1463 5      CACHE = .VCB[VCBSL_QUOCACHE];
475      1464 5      IF .CACHE NEQ 0          ! release quota cache if present
476      1465 5      THEN
477      1466 6      BEGIN
478      1467 6      IF .CACHE[VCSL_QUOCLKID] NEQ 0
479      1468 6      THEN DEQ LOCK (.CACHE[VCSL_QUOCLKID]);
480      1469 6      DEALLOCATE (.VCB[VCBSL_QUOCACHE]);
481      1470 5      END;
482      1471 5
483      1472 5      ! Dequeue the volume lock.
484      1473 5      !
485      1474 5
486      1475 5      DEQ_LOCK (.VCB [VCBSL_VOLLKID]);
487      1476 5
488      1477 5      IF .RVT NEQ .CURRENT_UCB
489      1478 5      THEN
490      1479 6      BEGIN
491      1480 6      VECTOR [RVT[RVTSL_UCBLST], .VCB[VCBSW RVN]-1] = 0;
492      1481 6      RVT[RVT$W_REFC] = .RVT[RVT$W_REFC] - 1;
493      1482 6      IF .RVT[RVT$W_REFC] EQL 0
494      1483 6      THEN
495      1484 7      BEGIN
496      1485 7      DEQ_LOCK (.RVT[RVTSL_STRUCLKID]);
497      1486 7
498      1487 7      ! Dequeue blocking lock and disable blocking check on exit.
499      1488 7      !
500      1489 7
501      1490 7      IF .RVT[RVTSL_BLOCKID] NEQ 0
502      1491 7      THEN DEQ_LOCK (.RVT[RVTSL_BLOCKID]);
503      1492 7      BLOCK_CHECK = 0;
504      1493 7
505      1494 7      DEALLOCATE (.RVT);
506      1495 7      END;
507      1496 6
508      1497 6      END
509      1498 5      ELSE
510      1499 6      BEGIN
511      1500 6      IF .VCB[VCBSL_BLOCKID] NEQ 0
512      1501 6      THEN DEQ_LOCK (.VCB[VCBSL_BLOCKID]);
513      1502 6      BLOCK_CHECK = 0;
```



```

514      1503      5      END;
515      1504      5
516      1505      5      DEALLOCATE (.VCB);          ! release the VCB
517      1506      5
518      1507      5      ! If the device lock exists, now demote it as appropriate (to CR if
519      1508      5      ! the device is not allocated, to EX otherwise). Clear the value
520      1509      5      ! block if this is the final dismount.
521      1510      5
522      1511      5
523      1512      5      IF .LKSTS [1] NEQ 0
524      1513      5      THEN
525      1514      6      BEGIN
526      1515      6      LOCAL LKFLGS;
527      1516      6      LKFLGS = LCK$M_CONVERT + LCK$M_CVTSYS
528      1517      6      + LCK$M_SYNCSTS + LCK$M_NOQUOTA;
529      1518      6
530      1519      6      IF .LOCKCOUNT EQL 1
531      1520      6      THEN
532      1521      7      BEGIN
533      1522      7      LKFLGS = .LKFLGS + LCK$M_VALBLK;
534      1523      7      LKSTS [2] = 0;
535      1524      7      LKSTS [3] = 0;
536      1525      7      LKSTS [4] = 0;
537      1526      7      LKSTS [5] = 0;
538      1527      6      END;
539      1528      6
540      1529      6      STS = $ENQ (LKMODE = IF .UCB [UCB$L_PID] NEQ 0
541      1530      6      THEN LCK$K_EXMODE
542      1531      6      ELSE LCK$K_CRMODE,
543      1532      6      LKSB = LKSTS,
544      1533      6      EFN = EFN,
545      1534      6      FLAGS = .LKFLGS);
546      1535      6
547      1536      6      IF NOT .STS
548      1537      6      OR NOT .LKSTS
549      1538      5      THEN BUG_CHECK (XQPERR, FATAL, 'Unexpected lock manager error');
550      1539      5      END;
551      1540      5      ! Call IOC$DALLOC_DMT routine to deallocate the device when appropriate.
552      1541      5
553      1542      5
554      1543      5      IOC$DALLOC_DMT (.CTL$GL_PCB, .UCB);
555      1544      5
556      1545      5      UNLOCK_IODB ();
557      1546      5
558      1547      5      IF .AOB NEQ 0
559      1548      5      THEN
560      1549      6      BEGIN
561      1550      6      LOCAL P : REF BBLOCK;
562      1551      6      P = .AOB [AOB$L_BUF$CACHE];
563      1552      6      EXE$DEAPGDSIZ (.P, .P [F11BC$L_REALSIZE]);
564      1553      6      DEALLOCATE (.AOB);
565      1554      5      END;
566      1555      5
567      1556      4      END;          ! end of dismount processing
568      1557      4
569      1558      3      END;          ! end of dismount condition
570      1559      3
```



```

: 571      1560      3      IF .RVT EQL .CURRENT_UCB THEN EXITLOOP;
: 572      1561      3      J = .J + 1;
: 573      1562      3      END
: 574      1563      2      UNTIL .J GTRU .RVT_LENGTH;
: 575      1564      2
: 576      1565      1      END;
: 577      1566      1      ! end of routine CHECK_DISMOUNT
```

.TITLE CHKDMO  
.IDENT \V04-000\

.EXTRN CTL\$GL\_PCB, CTL\$GL\_PHD  
.EXTRN IOC\$GL\_AQBLIST, CONV\_ACCLOCK  
.EXTRN LOCK\_COUNT, WAIT\_FOR\_AST  
.EXTRN CONTINUE\_THREAD  
.EXTRN LOCK\_IODB, UNLOCK\_IODB  
.EXTRN DEQ\_LOCK, DEALLOCATE  
.EXTRN SWITCH\_CHANNEL, SEND\_ERRLOG  
.EXTRN EXE\$DEAPGDSIZ, IOC\$DALLOC\_DMT  
.EXTRN ACL\_DELETEACL, SYS\$QIO  
.EXTRN SYS\$ENQ, BUG\$\_XQPERR

.PSECT \$LOCKEDC1\$,NOWRT,2

		OBFC 00000				
	5E	30	C2	00002	SUBL2	#48, SP
	59	94	AA	9E 00005	MOVAB	-108(BASE), R9
	58	01	D0	00009	MOVL	#1, J
	50	98	AA	D0 0000C	MOVL	-104(BASE), R0
	56	20	A0	D0 00010	MOVL	32(R0), RVT
	69	56	D1	00014	CMPL	RVT, (R9)
		04	13	00017	BEQL	1\$
	6E	0B	A6	9A 00019	MOVZBL	11(RVT), RVT_LENGTH
		04	AE	D4 0001D 1\$:	CLRL	LOCKCOUNT
	55	56	D0	00020	MOVL	RVT, UCB
	69	55	D1	00023	CMPL	UCB, (R9)
		05	13	00026	BEQL	2\$
	55	40	A6	48 D0 00028	MOVL	64(RVT)[J], UCB
		55	D5	0002D 2\$:	TSTL	UCB
		2C	13	0002F	BEQL	4\$
27	3A	A5	05	E1 00031	BBC	#5, 58(UCB), 4\$
	69	55	D1	00036	CMPL	UCB, (R9)
		07	13	00039	BEQL	3\$
		55	DD	0003B	PUSHL	UCB
	0000G	CF	01	FB 0003D	CALLS	#1, SWITCH_CHANNEL
	0000G	CF	00	FB 00042 3\$:	CALLS	#0, LOCK_IODB
	12	08	DA	00047	MTPR	#8, #18
	54	1C	A5	D0 0004A	MOVL	28(UCB), ORB
	53	34	A5	D0 0004E	MOVL	52(UCB), VCB
	01	0C	A3	B1 00052	CMPW	12(VCB), #1
		08	13	00056	BEQL	5\$
	0000G	CF	00	FB 00058	CALLS	#0, UNLOCK_IODB
		02	81	31 0005D 4\$:	SRW	34\$
	66	A5	10	88 00060 5\$:	BISB2	#16, 102(UCB)
	0000G	CF	00	FB 00064	CALLS	#0, UNLOCK_IODB

0000G	CF	00000000G	55	DD	00069	PUSHL	UCB	1309
	52		7E	D4	0006B	CLRL	-(SP)	
			02	FB	0006D	CALLS	#2, SEND_ERRLOG	
			00	D0	00072	MOVL	CTL\$GL_PCB, PTR	1324
			A2	B6	00079	INCW	62(PTR)	1325
			A2	B6	0007C	INCW	56(PTR)	1326
08	AE	0084	C2	7D	0007F	MOVQ	132(PTR), SAVE_PRIV	1327
0086	C2	2040	8F	A8	00085	BISW2	#8256, 134(PTR)	1331
	52	00000000G	00	D0	0008C	MOVL	CTL\$GL_PHD, PTR	1333
10	AE		62	7D	00093	MOVQ	(PTR), -SAVE_PRIV+8	1334
02	A2	2040	8F	A8	00097	BISW2	#8256, 2(PTR)	1337
			7E	7C	0009D	CLRQ	-(SP)	1350
			7E	7C	0009F	CLRQ	-(SP)	
			7E	7C	000A1	CLRQ	-(SP)	
			5A	DD	000A3	PUSHL	BASE	
		00000000G	00	9F	000A5	PUSHAB	CONTINUE_THREAD	
04	64	A5	7E	D4	000AB	CLRL	-(SP)	
			0C	E5	000AD	BBCC	#12, 100(UCB), 6\$	
			01	DD	000B2	PUSHL	#1	
			02	11	000B4	BRB	7\$	
			11	DD	000B6	PUSHL	#17	
		FF78	CA	DD	000B8	PUSHL	-136(BASE)	
			1E	DD	000BC	PUSHL	#30	
00000000G	00		0C	FB	000BE	CALLS	#12, SYS\$QIO	1352
	62	10	AE	7D	000C5	MOVQ	SAVE_PRIV+8, (PTR)	1354
	52	00000000G	00	D0	000C9	MOVL	CTL\$GL_PCB, PTR	1355
			A2	B7	000D0	DECW	62(PTR)	1356
			A2	B7	000D3	DECW	56(PTR)	1357
0084	C2	08	AE	7D	000D6	MOVQ	SAVE_PRIV, 132(PTR)	1360
	07		50	E9	000DC	BLBC	QIOSTAT, 8\$	1361
00000000G	00		00	FB	000DF	CALLS	#0, WAIT_FOR_AST	1370
1C	AE	20	A5	D0	000E6	MOVL	32(UCB), -LKSTS+4	
			4B	13	000EB	BEQL	12\$	
		2C	A5	D5	000ED	TSTL	44(UCB)	1371
			46	12	000F0	BNEQ	12\$	
			7E	7C	000F2	CLRQ	-(SP)	1380
			7E	D4	000F4	CLRL	-(SP)	
			5A	DD	000F6	PUSHL	BASE	
		00000000G	00	9F	000F8	PUSHAB	CONTINUE_THREAD	
			7E	7C	000FE	CLRQ	-(SP)	
			2A	DD	00100	PUSHL	#42	
		38	AE	9F	00102	PUSHAB	LKSTS	
			04	DD	00105	PUSHL	#4	
			1E	DD	00107	PUSHL	#30	
00000000G	00		0B	FB	00109	CALLS	#11, SYS\$ENQ	
	5B		50	D0	00110	MOVL	R0, STS	
	01		5B	B1	00113	CMPW	STS, #1	1382
			07	12	00116	BNEQ	9\$	
00000000G	00		00	FB	00118	CALLS	#0, WAIT_FOR_AST	1383
	04		5B	E9	0011F	BLBC	STS, 10\$	1384
	04	18	AE	E8	00122	BLBS	LKSTS, 11\$	1385
			FEFF	00126	10\$:	BUGW		1386
			0000*	00128	11\$:	.WORD	<BUG\$ XQPERR!4>	
0000G	CF		A3	DD	0012A	PUSHL	124(UCB)	1391
04	AE		01	FB	0012D	CALLS	#1, LOCK_COUNT	
			50	D0	00132	MOVL	R0, LOCK_COUNT	
			04	11	00136	BRB	13\$	1370



04	AE	01	D0	00138	12\$:	MOVL	#1, LOCKCOUNT	1394	
0000G	CF	00	FB	0013C	13\$:	CALLS	#0, LOCK_IODB	1402	
00AD	C5	80	8F	8A	00141	BICB2	#128, 173(UCB)	1403	
3A	A5	0228	8F	AA	00147	BICW2	#552, 58(UCB)	1406	
		5C	A5	B7	0014D	DECW	92(UCB)	1407	
66	A5		10	8A	00150	BICB2	#16, 102(UCB)	1408	
		34	A5	D4	00154	CLRL	52(UCB)	1409	
		18	A4	7C	00157	CLRQ	24(ORB)	1410	
		20	A4	7C	0015A	CLRQ	32(ORB)	1412	
			64	D4	0015D	CLRL	(ORB)	1414	
	57	10	A3	D0	0015F	MOVL	16(VCB), AQB	1421	
	50	0B	A7	9A	00163	MOVZBL	11(AQB), R0	1422	
			50	D7	00167	DECL	R0		
0B	A7		50	90	00169	MOVB	R0, 11(AQB)		
			50	D5	0016D	TSTL	R0		
			04	13	0016F	BEQL	14\$		
			57	D4	00171	CLRL	AQB	1424	
			27	11	00173	BRB	17\$		
	50	00000000G	9F	D0	00175	14\$:	MOVL	@#IOC\$GL_AQBLIST, P	1429
	57		50	D1	0017C	CMPL	P, AQB	1430	
			0A	12	0017F	BNEQ	15\$		
00000000G	9F	10	A7	D0	00181	MOVL	16(AQB), @#IOC\$GL_AQBLIST	1432	
			11	11	00189	BRB	17\$		
	57	10	A0	D1	0018B	15\$:	CMPL	16(P), AQB	1435
			06	13	0018F	BEQL	16\$		
	50	10	A0	D0	00191	MOVL	16(P), P	1436	
			F4	11	00195	BRB	15\$		
10	A0	10	A7	D0	00197	16\$:	MOVL	16(AQB), 16(P)	1437
	52	00	B3	0F	0019C	17\$:	REMQUE	@0(VCB), FCB	1444
			34	1D	001A0	BVS	20\$		
		18	A2	B4	001A2	CLRW	24(FCB)	1447	
			52	DD	001A5	PUSHL	FCB	1448	
			7E	D4	001A7	CLRL	-(SP)		
0B	0000G	CF	02	FB	001A9	CALLS	#2, CONV_ACCLOCK		
	63	A2	01	E1	001AE	BBC	#1, 99(FCB), 18\$	1449	
			7E	D4	001B3	CLRL	-(SP)	1450	
		0080	C2	9F	001B5	PUSHAB	128(FCB)		
0000G	CF		02	FB	001B9	CALLS	#2, ACL_DELETEACL		
	54	10	B2	0F	001BE	18\$:	REMQUE	@16(FCB), WCB	1451
			09	1D	001C2	BVS	19\$		
			54	DD	001C4	PUSHL	WCB	1452	
0000G	CF		01	FB	001C6	CALLS	#1, DEALLOCATE		
			F1	11	001CB	BRB	18\$		
			52	DD	001CD	19\$:	PUSHL	FCB	1453
0000G	CF		01	FB	001CF	CALLS	#1, DEALLOCATE		
			C6	11	001D4	BRB	17\$	1444	
	52	58	A3	D0	001D6	20\$:	MOVL	88(VCB), CACHE	1456
	50		62	D0	001DA	MOVL	(CACHE), R0	1457	
		04	A0	D5	001DD	TSTL	4(R0)		
			08	13	001E0	BEQL	21\$		
		04	A0	DD	001E2	PUSHL	4(R0)	1458	
0000G	CF		01	FB	001E5	CALLS	#1, DEQ_LOCK		
	50	04	A2	D0	001EA	21\$:	MOVL	4(CACHE), R0	1459
		0C	A0	D5	001EE	TSTL	12(R0)		
			08	13	001F1	BEQL	22\$		
		0C	A0	DD	001F3	PUSHL	12(R0)	1460	
0000G	CF		01	FB	001F6	CALLS	#1, DEQ_LOCK		

0000G	CF	58	A3	DD	001FB	22\$:	PUSHL	88(VCB)	:	1461
	52		01	FB	001FE		CALLS	#1, DEALLOCATE	:	
		5C	A3	DD	00203		MOVL	92(VCB), CACHE	:	1463
			15	13	00207		BEQL	24\$	:	1464
		04	A2	D5	00209		TSTL	4(CACHE)	:	1467
			08	13	0020C		BEQL	23\$	:	
		04	A2	DD	0020E		PUSHL	4(CACHE)	:	1468
0000G	CF		01	FB	00211		CALLS	#1, DEQ_LOCK	:	
		5C	A3	DD	00216	23\$:	PUSHL	92(VCB)	:	1469
0000G	CF		01	FB	00219		CALLS	#1, DEALLOCATE	:	
		7C	A3	DD	0021E	24\$:	PUSHL	124(VCB)	:	1475
0000G	CF		01	FB	00221		CALLS	#1, DEQ_LOCK	:	
	69		56	D1	00226		CMPL	RVT, (R9)	:	1477
			2D	13	00229		BEQL	26\$	:	
	50	0E	A3	3C	0022B		MOVZWL	14(VCB), R0	:	1480
		40	A6	D4	0022F		CLRL	64(RVT)[R0]	:	
		04	A6	B7	00233		DECW	4(RVT)	:	1481
			31	12	00236		BNEQ	28\$	:	1482
			66	DD	00238		PUSHL	(RVT)	:	1486
0000G	CF		01	FB	0023A		CALLS	#1, DEQ_LOCK	:	
		24	A6	D5	0023F		TSTL	36(RVT)	:	1491
			08	13	00242		BEQL	25\$	:	
		24	A6	DD	00244		PUSHL	36(RVT)	:	1492
0000G	CF		01	FB	00247		CALLS	#1, DEQ_LOCK	:	
		A7	AA	94	0024C	25\$:	CLRB	-89(BASE)	:	1493
			56	DD	0024F		PUSHL	RVT	:	1495
0000G	CF		01	FB	00251		CALLS	#1, DEALLOCATE	:	
			11	11	00256		BRB	28\$	:	1477
	50	008C	C3	D0	00258	26\$:	MOVL	140(VCB), R0	:	1500
			07	13	0025D		BEQL	27\$	:	
			50	DD	0025F		PUSHL	R0	:	1501
0000G	CF		01	FB	00261		CALLS	#1, DEQ_LOCK	:	
		A7	AA	94	00266	27\$:	CLRB	-89(BASE)	:	1502
			53	DD	00269	28\$:	PUSHL	VCB	:	1505
0000G	CF		01	FB	0026B		CALLS	#1, DEALLOCATE	:	
		1C	AE	D5	00270		TSTL	LKSTS+4	:	1512
			41	13	00273		BEQL	33\$	:	
	50	6A	8F	9A	00275		MOVZBL	#106, LKFLGS	:	1517
	01	04	AE	D1	00279		CMPL	LOCKCOUNT, #1	:	1519
			08	12	0027D		BNEQ	29\$	:	
			50	D6	0027F		INCL	LKFLGS	:	1522
		20	AE	7C	00281		CLRQ	LKSTS+8	:	1523
		28	AE	7C	00284		CLRQ	LKSTS+16	:	1525
			7E	7C	00287	29\$:	CLRQ	-(SP)	:	1534
			7E	7C	00289		CLRQ	-(SP)	:	
			7E	7C	0028B		CLRQ	-(SP)	:	
			7E	D4	0028D		CLRL	-(SP)	:	
			50	DD	0028F		PUSHL	LKFLGS	:	
		38	AE	9F	00291		PUSHAB	LKSTS	:	
		2C	A5	D5	00294		TSTL	44(UCB)	:	
			04	13	00297		BEQL	30\$	:	
			05	DD	00299		PUSHL	#5	:	
			02	11	0029B		BRB	31\$	:	
			01	DD	0029D	30\$:	PUSHL	#1	:	
			1E	DD	0029F	31\$:	PUSHL	#30	:	
00000000G	00		0B	FB	002A1		CALLS	#11, SYS\$ENQ	:	
	5B		50	D0	002A8		MOVL	R0, STS	:	



04		5B	E9	002AB	BLBC	STS, 32\$	:	1535
04	18	AE	E8	002AE	BLBS	LKSTS, 33\$	:	1536
		FEFF		002B2	BUGW		:	1537
		0000*		002B4	.WORD	<BUG\$ XQPERR!4>	:	
54	00000000G	00	D0	002B6	MOVL	CTL\$GL_PCB, R4	:	1543
	00000000G	00	16	002BD	JSB	IOC\$DACLOC_DMT	:	
0000G	CF	00	FB	002C3	CALLS	#0, UNLOCK_IODB	:	1545
		57	D5	002C8	TSTL	AQB	:	1547
		15	13	002CA	BEQL	34\$	:	
50	18	A7	D0	002CC	MOVL	24(AQB), P	:	1551
51	OC	A0	D0	002D0	MOVL	12(P), R1	:	1552
	00000000G	00	16	002D4	JSB	EXE\$DEAPGDSIZ	:	
		57	DD	002DA	PUSHL	AQB	:	1553
0000G	CF	01	FB	002DC	CALLS	#1, DEALLOCATE	:	
69		56	D1	002E1	CMPL	RVT, (R9)	:	1560
		0A	13	002E4	BEQL	35\$	:	
		58	D6	002E6	INCL	J	:	1562
6E		58	D1	002E8	CMPL	J, RVT_LENGTH	:	1564
		03	1A	002EB	BGTRU	35\$	:	
		FD2D	31	002ED	BRW	1\$	:	
		04	002F0	35\$:	RET		:	1566

; Routine Size: 753 bytes, Routine Base: \$LOCKEDC1\$ + 0000

```
1567 1 GLOBAL ROUTINE UPDATE_DIRSEQ : L_NORM =
1568 1
1569 1 ++
1570 1
1571 1 FUNCTIONAL DESCRIPTION:
1572 1
1573 1 This routine bumps the directory sequence count in the UCB to invalidate
1574 1 RMS directory caches on the volume.
1575 1
1576 1
1577 1 CALLING SEQUENCE:
1578 1 UPDATE_DIRSEQ ()
1579 1
1580 1 INPUT PARAMETERS:
1581 1 NONE
1582 1
1583 1 IMPLICIT INPUTS:
1584 1 CURRENT_UCB: UCB of device in use
1585 1 CURRENT_RVT:
1586 1 NVOLS: number of volumes in volume set
1587 1 UCBLST: addresses of UCB's in volume set
1588 1
1589 1 OUTPUT PARAMETERS:
1590 1 NONE
1591 1
1592 1 IMPLICIT OUTPUTS:
1593 1 directory sequence count incremented
1594 1
1595 1 ROUTINE VALUE:
1596 1 1
1597 1
1598 1 SIDE EFFECTS:
1599 1 NONE
1600 1
1601 1 --
1602 1
1603 2 BEGIN
1604 2
1605 2 BIND_COMMON;
1606 2
1607 2 EXTERNAL ROUTINE
1608 2 ALLOCATION_LOCK : L_NORM NOVALUE,
1609 2 ALLOCATION_UNLOCK : L_NORM NOVALUE,
1610 2 SWITCH_VOLUME : L_NORM NOVALUE,
1611 2 QEX_N_CANCEL : L_NORM;
1612 2
1613 2 LOCAL
1614 2 CURRVN,
1615 2 HAD_LOCK,
1616 2 VCB : REF BBLOCK, ! VCB address
1617 2 UCB : REF BBLOCK; ! UCB address
1618 2
1619 2 ! Iterate over the mounted volumes of a volume set if there is one.
1620 2 !
1621 2
1622 2 CURRVN = .CURRENT_RVN;
1623 2
```



```
1624 2 HAD_LOCK = 0;
1625 2
1626 2 IF .LB_LOCKID [0] NEQ 0
1627 2 THEN
1628 2     HAD_LOCK = 1
1629 2 ELSE
1630 2     ALLOCATION_LOCK ();
1631 2
1632 2 UCB = .CURRENT_UCB;
1633 2 IF .CURRENT_RVT NEQ .UCB
1634 2 THEN
1635 2     BEGIN
1636 2         INCR J FROM 1 TO .CURRENT_RVT[RVT$B_NVOLS]
1637 2     DO
1638 2         BEGIN
1639 2             VCB = 0;
1640 2             UCB = .VECTOR [CURRENT_RVT[RVT$L_UCBLST], .J-1];
1641 2             IF .UCB NEQ 0
1642 2             THEN
1643 2                 IF (VCB = .UCB [UCB$L_VCB]) NEQ 0
1644 2                 THEN
1645 2                     BEGIN
1646 2                         SWITCH_VOLUME (.J);
1647 2                         QEX_N_CANCEL (.LB_LOCKID [0]);
1648 2                     END;
1649 2                 END;
1650 2             SWITCH_VOLUME (.CURRVN);
1651 2         END
1652 2     ELSE
1653 2         QEX_N_CANCEL (.LB_LOCKID [0]);
1654 2
1655 2 IF NOT .HAD_LOCK
1656 2 THEN
1657 2     ALLOCATION_UNLOCK ();
1658 2
1659 2 RETURN 1;
1660 2
1661 1 END;
```

! end of routine UPDATE\_DIRSEQ

					.EXTRN	ALLOCATION_LOCK		
					.EXTRN	ALLOCATION_UNLOCK		
					.EXTRN	SWITCH_VOLUME, QEX_N_CANCEL		
					.ENTRY	UPDATE_DIRSEQ, Save R2,R3,R4,R5,R6,R7	:	1567
					MOVL	-96(BASE), CURRVN	:	1622
					CLRL	HAD_LOCK	:	1624
					TSTL	108(BASE)	:	1626
					BEQL	1\$	:	
					MOVL	#1, HAD_LOCK	:	1628
					BRB	2\$	:	
					CALLS	#0, ALLOCATION_LOCK	:	1630
					MOVL	-108(BASE), UCB	:	1632
					MOVL	-100(BASE), R0	:	1633
					CMPL	R0, UCB	:	
					BEQL	5\$	:	

  

			00FC	00000		
57	A0	AA	D0	00002		
		56	D4	00006		
	6C	AA	D5	00008		
		05	13	0000B		
56		01	D0	0000D		
		05	11	00010		
0000G	CF	00	FB	00012	1\$:	
	53	94	AA	D0	00017	2\$:
	50	9C	AA	D0	0001B	
	53	50	D1	0001F		
		37	13	00022		

	55	0B	A0	9A	00024	MOVZBL	11(R0), R5	: 1636
			52	D4	00028	CLRL	J	:
			22	11	0002A	BRB	4\$	:
			54	D4	0002C	CLRL	VCB	: 1639
	50	9C	BA42	DE	0002E	MOVAL	a-100(BASE)[J], R0	: 1640
	53	40	A0	D0	00033	MOVL	64(R0), UCB	:
			15	13	00037	BEQL	4\$	: 1641
	54	34	A3	D0	00039	MOVL	52(UCB), VCB	: 1643
			0F	13	0003D	BEQL	4\$	:
			52	DD	0003F	PUSHL	J	: 1646
0000G	CF		01	FB	00041	CALLS	#1, SWITCH_VOLUME	:
		6C	AA	DD	00046	PUSHL	108(BASE)	: 1647
0000G	CF		01	FB	00049	CALLS	#1, QEX_N_CANCEL	:
DA	52		55	F3	0004E	AOBLEQ	R5, J, 3\$	: 1636
			57	DD	00052	PUSHL	CURRVN	: 1650
0000G	CF		01	FB	00054	CALLS	#1, SWITCH_VOLUME	:
			08	11	00059	BRB	6\$	: 1633
		6C	AA	DD	0005B	PUSHL	108(BASE)	: 1653
0000G	CF		01	FB	0005E	CALLS	#1, QEX_N_CANCEL	:
	05		56	E8	00063	BLBS	HAD_LOCK, 7\$	: 1655
0000G	CF		00	FB	00066	CALLS	#0, ALLOCATION_UNLOCK	: 1657
	50		01	D0	0006B	MOVL	#1, R0	: 1659
			04	0006E	RET			: 1661

; Routine Size: 111 bytes, Routine Base: \$LOCKEDC1\$ + 02F1

:	674	1662	1
:	675	1663	1 END
:	676	1664	0 ELUDOM

## PSECT SUMMARY

Name	Bytes	Attributes
\$LOCKEDC1\$	864	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

## Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	84	0	1000	00:02.0



CHKDMO  
V04-000

L 8  
15-Sep-1984 23:59:22  
14-Sep-1984 12:30:10

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11X.SRC]CHKDMO.B32;1 Page 19 (3)

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CHKDMO/OBJ=OBJ\$:CHKDMO MSRC\$:CHKDMO/UPDATE=(ENH\$:CHKDMO)

; Size: 864 code + 0 data bytes  
; Run Time: 00:40.4  
; Elapsed Time: 01:11.8  
; Lines/CPU Min: 2473  
; Lexemes/CPU-Min: 45046  
; Memory Used: 405 pages  
; Compilation Complete



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